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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,096	02/11/2004	Fumio Takahashi	2015-0103004Reg	1583
22850 OBLON, SPIV	7590 05/11/2007 AK, MCCLELLAND, MA	EXAMINER		
1940 DUKE S'	rreet	DEHGHAN, QUEENIE S		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1731	
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			NOTIFICATION DATE	DELIVERY MODE
			05/11/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

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	Application No.	Applicant(s)				
	10/775,096	TAKAHASHI, FUMIO				
Office Action Summary	Examiner	Art Unit				
	Queenie Dehghan	1731				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 20 Fe	ebruary 2007.					
	action is non-final.					
·—						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the applicati	on.					
4a) Of the above claim(s) 2 is/are withdrawn from						
5) Claim(s) is/are allowed.	•					
6)⊠ Claim(s) <u>1</u> is/are rejected.						
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	, r.					
10)⊠ The drawing(s) filed on is/are: a)□ acce		Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application				
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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Claim 1 in the reply filed on February 20, 2007 is acknowledged. The traversal is on the ground(s) that undue burden has not been established. This is not found persuasive because the groups are classified in different classifications.

The requirement is still deemed proper and is therefore made FINAL.

Drawings

2. Figure 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by DiGiovanni et al. (6,735,985). DiGiovanni et al. disclose a method of manufacturing an optical fiber comprising: heating at least a portion of an optical fiber preform; drawing an optical fiber at a speed of 500 meters per minute or more from the optical fiber preform heated (col. 3 lines 51-55, col. 5 line 30); and impressing a spin on the optical fiber, while drawing, alternately in a clockwise direction and in a counterclockwise direction with a predetermined angle (col. 4 lines 20-25, col. 6 lines 39-53) in such a manner that a maximum spatial frequency "y" of the spin per meter satisfies a relationship of exp(24x-12) \leq y \leq 4, where "x" is non-circularity of the cladding in percent (col. 4 lines 7-8, col. 5 lines 1-2), resulting in a polarization mode dispersion of the optical fiber of 0.5 ps/km1/2 or less at the wavelength of 1310 nanometers. Furthermore, there is no reason to expect that the resulting fiber would not result in an optical fiber comprising a core and a cladding and having a maximum relative refractive index difference of the core with the

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cladding of 0.3% to 0.5% and a mode field diameter of 8 micrometers to 10 micrometers at a wavelength of 1310 nanometers.

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Roba et al. (2001/0020374) in view of Chen et al. (6,876,804). Roba et al. disclose a method of manufacturing an optical fiber comprising: heating at least a portion of an optical fiber preform [0063]; drawing an optical fiber at a speed of 500 meters per minute or more from the optical fiber preform heated ([0063], [0084]); and impressing a spin on the optical fiber, while drawing, alternately in a clockwise direction and in a counterclockwise direction with a predetermined angle ([0086], [0087]). However, Roba et al. fail to disclose a particular spin frequency achieved in impressing spin on the fiber.

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Chen et al. teach impressing a spin on an optical fiber, while drawing (col. 5 lines 7-8), with a predetermined angle (col. 6 lines 4-33) in such a manner that a maximum spatial frequency "y" of the spin per meter satisfies a relationship of $\exp(24x-12) \le y \le 4$, where (col. 3 lines 4-10), and that a polarization mode dispersion of the optical fiber manufactured is 0.5 ps/km^{1/2} or less at the wavelength of 1310 nanometers (col. 2 lines 41-45). It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the spin rate of Chen in the process of Roba in order to impart a spin the fiber resulting in a low PMD, such as 0.5 ps/km^{1/2} or less. Furthermore, there is no reason to expect that the resulting fiber of Roba et al. and Chen et al. processes would not result in an optical fiber comprising a core and a cladding and having a maximum relative refractive index difference of the core with the cladding of 0.3% to 0.5% and a mode field diameter of 8 micrometers to 10 micrometers at a wavelength of 1310 nanometers.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Queenie Dehghan whose telephone number is (571)272-8209. The examiner can normally be reached on Monday through Friday 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Q Dehghan

STEVEN P. GRIFFIN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700